

Finding Slope From an Equation

Date _____ Period _____

Find the slope of each line.

1) $y = -\frac{5}{2}x - 5$

2) $y = -\frac{4}{3}x - 1$

3) $y = -x + 3$

4) $y = -4x - 1$

5) $2x - y = 1$

6) $x + 2y = -8$

7) $8x + 3y = -9$

8) $4x + 5y = -10$

9) $x - y = -2$

$$\begin{array}{r} \cancel{x} - \cancel{y} = -2 \\ \cancel{-x} = \frac{-2 - x}{-1} \\ y = x + 2 \\ m = 1 \end{array}$$

10) $4x - 3y = 9$

$$\begin{array}{r} \cancel{4x} - \cancel{3y} = 9 \\ \cancel{-3y} = \frac{9 - 4x}{-3} \\ y = \frac{4}{3}x - 3 \\ m = \frac{4}{3} \end{array}$$

11) $3x + 2y = 6$

12) $4x - 5y = 0$

13) $y = -1$

$$y = 0x - 1 \\ m = 0$$

14) $x + 5y = -15$

15) $-2y - 10 + 2x = 0$

16) $x + 5 + y = 0$

$$\begin{array}{r} \cancel{x} + 5 + \cancel{y} = 0 \\ \cancel{y} + 5 = \frac{-x}{-1} \\ y = -x - 5 \\ m = -1 \end{array}$$

17) $3x + 20 = -4y$

$$\begin{array}{r} \cancel{3x} + 20 = \cancel{-4y} \\ -\frac{3x}{4} + 5 = y \\ y = -\frac{3}{4}x - 5 \\ m = -\frac{3}{4} \end{array}$$

18) $-15 - x = -5y$

$$\begin{array}{r} -15 - x = -5y \\ y = \frac{-x - 15}{-5} \\ y = \frac{1}{5}x + 3 \\ m = \frac{1}{5} \end{array}$$

19) $-1 = -2x + y$

20) $-x - 1 = y$

21) $0 = 5y - x$

22) $-30 + 10y = -2x$

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1) $y = -\frac{5}{2}x - 5$ $-\frac{5}{2}$

2) $y = -\frac{4}{3}x - 1$ $-\frac{4}{3}$

3) $y = -x + 3$ -1

4) $y = -4x - 1$ -4

5) $2x - y = 1$
 2

6) $x + 2y = -8$
 $-\frac{1}{2}$

7) $8x + 3y = -9$
 $-\frac{8}{3}$

8) $4x + 5y = -10$
 $-\frac{4}{5}$

9) $x - y = -2$
 1

10) $4x - 3y = 9$
 $\frac{4}{3}$

11) $3x + 2y = 6$
 $-\frac{3}{2}$

12) $4x - 5y = 0$
 $\frac{4}{5}$

13) $y = -1$
 0

14) $x + 5y = -15$
 $-\frac{1}{5}$

15) $-2y - 10 + 2x = 0$
 1

16) $x + 5 + y = 0$
 -1

17) $3x + 20 = -4y$
 $-\frac{3}{4}$

18) $-15 - x = -5y$
 $\frac{1}{5}$

19) $-1 = -2x + y$
 2

20) $-x - 1 = y$
 -1

21) $0 = 5y - x$
 $\frac{1}{5}$

22) $-30 + 10y = -2x$
 $-\frac{1}{5}$